

## CURRICULUM VITAE

**BRIAN FORSYTHE, MD**

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### **EDUCATION**

- The University of Pittsburgh (2007-2008) Orthopedic Shoulder & Sports Medicine Fellowship
- Harvard Combined Orthopedic Residency Program (2003-2007) Orthopedic Residency
- Beth-Israel Deaconess Medical Center (2002-2003) Harvard Teaching Hospital, General Surgery Internship
- University of Pennsylvania School of Medicine (1998-2002) Doctor of Medicine
- Brown University (1994-1998) B.A. Public Policy and American Institutions, Concentration in Pre-Med

### **LEADERSHIP POSITIONS AND EXPERIENCES**

- Vice President, Professional Soccer Physicians Society, PSPS (Major League Soccer, MLS) (2020-Present)
- AOSSM Council of Delegates, State Representative, Illinois (2019-2022)
- Chicago Fire Soccer Club (MLS) Head Orthopedic Officer (2015-Present)
- Major League Soccer (MLS) Medical Assessment and Research Committee (M-MARC) (2018-Present)
- American Orthopedic Society for Sports Medicine, Education Committee Member (2018-2023)
- AOSSM Fellows Course Co-Director (2019-2022)
- Rush Health Finance Committee, Vice Chairman (2016-Present)
- Munster Specialty Surgery Center Medical Director (2016-Present)
- Sports Medicine CORE Curriculum Coordinator, Harvard Combined Orthopedic Residency Program, Boston, MA (2005-2007)
- Student Representative, American Association of Medical Colleges, University of Pennsylvania School of Medicine, Philadelphia, PA (1998-2001)

### **ACADEMIC APPOINTMENTS**

- Associate Professor, Department of Orthopedic Surgery Division of Sports Medicine, Rush University Medical Center, Chicago, IL (2012 Present)
- Fellow, UPMC Medical Center, Pittsburgh, PA (2007-2008)
- Instructor, Harvard Medical School, Boston, MA (2002-2007)

### **EMPLOYMENT (include non-academic appointments/jobs relevant to current carrier; same information as above)**

- Associate Professor, Dept. of Orthopedic Surgery Division of Sports Medicine, Chicago, IL (2012-Present)
- Chicago Fire, MLS, Head Orthopedic Officer (2015-Present)
- Chicago White Sox, MLB Team Physician (2012-Present)
- Chicago Bulls, NBA, Team Physician (2012-Present)
- Chicago Mustangs, MASL, Head Team Orthopedic Surgeon (2015-2017)

- Chicago Blitz, AIFL, Head Team Physician (2015-2017)
- U.S Soccer Federation, National Teams Program, Team Physician (2008-Present)
- Partner, OAK Orthopedics, Bradley, IL (2008-2011)
- Fellow, UPMC Medical Center, Pittsburgh, PA (2007-2008)
- Instructor, Harvard Medical School, Boston, MA (2002-2007)

### **CERTIFICATION AND LICENSURE**

- American Board of Orthopedic Surgery Certified 7-21-2011 Expires 12-31-2021
- Illinois Licensed Physician & Surgeon #036120879
- Indiana Physician License #01074758A
- Commonwealth of Massachusetts Full License # 227698
- Advanced Trauma Life Support

### **HONORS AND AWARDS**

- Biological Augmentation with Mesenchymal Stem Cells in Anterior Cruciate Ligament Reconstruction.  
**Forsythe B**, Lavoie-Gagne O, Forlenza E, Korrapati A, Diaz CC, Jeong Y, Chahla J, Yanke AB, Cole BJ, Verma NN, Chung C, Bach BR. **Richard O'Connor Research Award for Best Project at AANA**
- Okoroha K, Patel BH, Lu Y, Idarraga AJ, **Forsythe B**. Concussions in the National Basketball Association: An Analysis from 1999-2018. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA. **AOSSM 2019 Poster Award Winner.**
- Patellofemoral Anatomy Research Excellence Award (2018)**  
Isolated Medial Patellofemoral Ligament Repair vs. Reconstruction: Rates and Risk Factors for Instability Recurrence in a Young, Active Population  
**Forsythe B**, Waterman B, Zuke WA, Puzziello R, Agarwalla A, Cole BJ, Yanke AB  
Arthroscopy Association of America Annual Meeting
- Neer Award Finalist (2017)**  
Randomized Prospective Analysis of Arthroscopic Supratoral and Open Subpector Biceps Tenodesis  
**Forsythe B**, Zuke WA, Go B, Ellsworth B, Yanke A, Verma NN, Romeo AA  
American Shoulder and Elbow Surgeons Meeting  
New Orleans, LA
- Award of Excellence, Scientific Exhibit (2008)**  
Application of Anatomic Double Bundle Reconstruction Concept in Revision/Augmentation Anterior Cruciate Ligament (ACL) Surgeries.  
American Academy of Orthopedic Surgeons Annual Meeting  
Shen W, Honkamp NJ, **Forsythe B**, Ingham SJM, Fu FH.  
San Francisco, CA
- Illinois Top Doctor (2019-2020) "IL Top Docs"
- Academic Scholarship, University of Pennsylvania School of Medicine
- Ghordon Rhode Dewart Fellowship (2002)  
Awarded to outstanding humanities major pursuing a career in medicine. Brown University, Providence RI.

### **SOCIETY MEMBERSHIPS**

- Fellow of the American Academy of Orthopedic Surgery (FAAOS)
- American Orthopedic Society for Sports Medicine, Member (AOSSM)

- Arthroscopy Association of North America, Member (AANA)
- American Shoulder and Elbow Society Associate Member (ASES),
- International Society of Arthroscopy, Knee Surgery and Orthopedic Sports Medicine (ISAKOS)
- Illinois State Medical Society

**TEACHING (in reverse chronology starting with the most recent one)**

- Rush University (courses, role, types of students/residents, contact hours, frequency, years of service, title of lectures)**

Resident Lab Courses, Instructor & Director

08/2020	Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL
01/2020	Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL
02/2019	Arthroscopy Course Midwest Orthopaedics at Rush, Chicago, IL
09/2018	Arthroscopic Shoulder Course Midwest Orthopaedics at Rush, Chicago, IL
03/2018	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
11/2017	Arthroscopic Shoulder Course Midwest Orthopaedics at Rush, Chicago, IL
04/2017	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
09/2016	Arthroscopic Shoulder Course Midwest Orthopaedics at Rush, Chicago, IL
04/2016	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
07/2015	Arthroscopic Shoulder Course Midwest Orthopaedics at Rush, Chicago, IL
04/2015	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
10/2014	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
06/2014	Arthroscopic Shoulder Course Midwest Orthopaedics at Rush, Chicago, IL
10/2013	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
10/2012	Arthroscopic Knee Course Midwest Orthopaedics at Rush, Chicago, IL
07/2011	Arthroscopic Shoulder Course, with Dr. Bernard Bach, Jr. Midwest Orthopaedics at Rush, Chicago, IL
04/2011	Arthroscopic Hip Course, with Dr. Shane Nho Midwest Orthopaedics at Rush, Chicago, IL
04/2011	Arthroscopic Knee Course, with Dr. Shane Nho Midwest Orthopaedics at Rush, Chicago, IL
01/2011	Arthroscopic Shoulder Course, with Dr. Gregory Nicholson Midwest Orthopaedics at Rush, Chicago, IL
11/2010	Arthroscopic Knee Course, with Dr. Nikhil Verma Midwest Orthopaedics at Rush, Chicago, IL
08/2010	Arthroscopic Shoulder Course, with Dr. Gregory Nicholson Midwest Orthopaedics at Rush, Chicago, IL

08/2009 Arthroscopic Knee Course, with Dr. Charles Bush Joseph  
Midwest Orthopaedics at Rush, Chicago, IL

08/2009 Arthroscopic Shoulder Course, with Dr. Gregory Nicholson  
Midwest Orthopaedics at Rush, Chicago, IL

11/2008 Arthroscopic Shoulder Course, with Dr. Charles Bush-Joseph  
Midwest Orthopaedics at Rush, Chicago, IL

08/2008 Arthroscopic Knee Course, with Dr. Brian Cole  
Midwest Orthopaedics at Rush, Chicago, IL

Fellows Lab Courses, Instructor:

2/9/2019 Shoulder Arthroscopy Course for Sports Medicine for Fellows,  
Gold Coast Surgery Center, Chicago, IL

10/2018 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

09/2018 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

12/2017 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

10/2017 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

10/2016 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

18/2016 Stryker Arthroscopy Course  
Midwest Orthopaedics at Rush, Chicago, IL

10/2013 Arthroscopic Elbow Lab  
Midwest Orthopaedics at Rush, Chicago, IL

10/2012 Arthroscopic Knee Lab  
Midwest Orthopaedics at Rush, Chicago, IL

08/2012 Arthroscopic Shoulder Lab  
Midwest Orthopaedics at Rush, Chicago, IL

08/2011 Arthroscopic Shoulder Lab  
Midwest Orthopaedics at Rush, Chicago, IL

03/2011 Arthroscopic Knee Lab  
Midwest Orthopaedics at Rush, Chicago, IL

10/2010 Arthroscopic Knee Lab  
Midwest Orthopaedics at Rush, Chicago, IL

09/2010 Arthroscopic Shoulder Lab  
Midwest Orthopaedics at Rush, Chicago, IL

**Grand rounds (years, titles of lectures)**

2020 Current Trends in ACL Reconstruction Technique: Are we Anatomic and is there a role  
for Orthobiologics?  
Rush University Medical Center, Department of Orthopedics  
Chicago, IL

2020 Management of Massive Rotator Cuff Tears: Primary Repair, Superior Capsular  
Reconstruction, or Reverse Total Shoulder Arthroplasty?  
Rush University Medical Center, Department of Orthopedics  
Chicago, IL

**Other institutions (same information as above)**

2018 AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques  
Lab Instructor, Lecturer, July, Rosemont, IL

- 2018 AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage.  
Orthopedic Learning Center.  
Lab Instructor: June 5-7. Rosemont, IL.
- 2017 AAOS Fellows Sports Medicine Course: Shoulder Arthroscopy Techniques  
Lab Instructor, July, Rosemont, IL
- 2017 AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage.  
Orthopedic Learning Center.  
Lab Instructor: June 5-7. Rosemont, IL.
- 2016 AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage.  
Orthopedic Learning Center.  
Lab Instructor: June 5-7. Rosemont, IL.
- 2015 AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage.  
Orthopedic Learning Center.  
Lab Instructor: June 5-7. Rosemont, IL.
- 2015 AANA Master Course: Advanced Comprehensive Knee Course: Ligament Reconstruction and Cartilage.  
Orthopedic Learning Center.  
Lab Instructor: June 5-7. Rosemont, IL.
- 2014 AANA Master Course: Knee Ligament Reconstruction.  
Orthopedic Learning Center.  
Lab Instructor: June 6-8, Rosemont, IL.
- 2013 AANA Master Course: Knee Ligament Reconstruction.  
Orthopedic Learning Center.  
Lab Instructor: June 7-9, Rosemont, IL.
- 2012 AANA Master Course: Anatomical ACL Reconstruction.  
Orthopedic Learning Center.  
Lab Instructor: March 9-11, Rosemont, IL.
- 2011 AANA Master Course: Anatomical ACL Reconstruction. Orthopedic Learning Center.  
Lab Instructor: March 11-13, Rosemont, IL.
- 2010 AANA Master Course: Shoulder Arthroscopy.  
Orthopedic Learning Center.  
Lab Instructor: June 4-6, Rosemont, IL.
- 2008 Current Concepts in Double Bundle ACL Reconstruction  
Lab Instructor: December 14<sup>th</sup>, 2008. Rosemont, IL
- 2008 Panther Global Summit: Anatomic Double Bundle ACL Reconstruction  
Lab Instructor: Feb 28<sup>th</sup>-March 1<sup>st</sup>, 2008. Pittsburgh, PA
- 2006-2007 Harvard Orthopedic Primary Care Course  
Instructor: Cambridge, MA

**☐ Mentorship to students/residents/trainees/fellows/peers (names, projects, years of service, mentee's awards/accomplishments)**

Sports Medicine Fellows

- Jaskarndip Chahal, M.D., 2011-2012  
University of Toronto Orthopaedic Sports Medicine (UTOSM) Program  
UHN Arthritis Program,  
Toronto, Ontario, CA
- Wendell M.R. Heard, M.D., 2011-2012  
Assistant Professor of Clinical Orthopaedics, Tulane University School of Medicine  
New Orleans, LA
- Nathan A. Mall, M.D., 2011-2012

Director, Cartilage Restoration Center of St. Louis Sports Medicine  
St. Louis, MO

- Geoffrey S. Van Thiel, M.D., MBA, 2011-2012  
Rockford Orthopedic; Faculty – Orthopedics, Rush University Medical Center  
Rockford, IL
- Geoffrey D. Abrams, M.D., 2012-2013  
Assistant Professor of Orthopaedic Surgery at the Stanford University Medical Center  
Palo Alto, CA
- Anil K. Gupta, M.D, MBA, 2012-2013  
Tampa, FL
- Joshua D. Harris, M.D., 2012-2013  
Houston, TX
- Frank McCormick, M.D., 2012-2013  
Fort Lauderdale, FL
- Marc Haro, M.D., 2013-14 Charleston, SC
- Randhir Mascarenhas, M.D., 2013-14  
Assistant Professor, Department Of Orthopedic Surgery, McGovern Medical School at the University of  
Texas Health Science Center  
Houston, TX
- Thomas Wuerz, M.D., MSc., MS., 2013-14 Boston, MA  
New England Baptist Hospital
- Adam Yanke, M.D., PhD.  
Assistant Professor, Sports Medicine, Midwest Orthopedics at Rush  
2013-14 Chicago, IL
- Ljiljana Bogunovic, M.D., 2014-15  
Assistant Professor, Orthopaedic Surgery, Washington University and Barnes-Jewish Orthopedic Center  
St. Louis, MO
- Kirk A. Campbell, M.D., 2014-15  
Assistant Professor, Department of Orthopaedic Surgery, NYU Langone  
New York, NY
- Mahmoud Michael Khair, M.D., 2014-15  
The Carrell Clinic  
Dallas, TX
- Jonathan C. Riboh, M.D., 2014-15  
Assistant Professor in Orthopaedic Surgery, Duke University School of Medicine  
Durham, NC
- Justin W. Griffin, M.D., 2015-16  
Jordan-Young Orthopedic Institute  
Charlottesville, VA
- Timothy Leroux, M.D., 2015-16  
Assistant Professor, Department of Surgery, University of Toronto  
Toronto, Ontario, CA
- Eric C. Makhni, M.D., 2015-16  
Assistant Director, Sports Medicine Orthopedic Surgery Fellowship, Henry Ford Health System  
West Bloomfield, MI
- Mark A. McCarthy, M.D., 2015-16  
Orthopedic Surgery, Orthopedics, Sports Medicine, Mayo Clinic Health System  
Eau Claire, WI
- Alexander E. Weber, M.D., 2015-16  
Assistant Professor of Sports Medicine, USC Department of Orthopaedic Surgery.  
Los Angeles, CA
- Rachel M. Frank, M.D., 2016-17  
Assistant Professor, Orthopaedic Surgery at the University of Colorado School of Medicine,  
Denver, CO
- Nicole A. Friel, M.D., 2016-17

Shriners Hospitals for Children-Northern California  
Sacramento, CA

- Drew A. Lansdown, M.D. 2016-17  
Assistant Professor, University of California, San Francisco  
San Francisco, CA
- Andrew J. Riff, M.D., 2016-17  
Assistant Professor, Clinical Orthopaedic Surgery, Indiana University  
Indianapolis, IN
- Brian R. Waterman, M.D., 2016-17  
Wake Forest Baptist Health  
Winston-Salem, NC
- Gregory L. Cvetanovich, M.D., 2017-18  
Assistant Professor, The Ohio State University Wexner Medical Center,  
Columbus, OH
- Grant H. Garcia, M.D., 2017-18  
Orthopedic Specialists of Seattle,  
Seattle, WA
- Natalie L. Leong, M.D., 2017-18  
Assistant Professor of Orthopaedics, University of Maryland Medical Center  
Baltimore, MD
- Joseph Liu, M.D., 2017-18  
Loma Linda University  
Loma Linda, CA
- Austin V. Stone, M.D., PhD., 2017-18  
Assistant Professor of Orthopaedic Surgery, University of Kentucky Medical Center  
Lexington, KY
- Benedict U Nwachukwu M.D., MBA, 2018-2019
- Kelechi Okorooha M.D., 2018-2019
- Jourdan Cancienne M.D., 2018-2019
- Ian J Dempsey M.D., MBA, 2018-2019
- Jorge Chahla MD PhD, 2018-2019
- Kevin Pavaresh MD, 2019-2020

#### Residents and Medical Students Collaborators

- Bryce Basques – Spine
- Daniel Bohl – Foot/Ankle
- Islam Elboghdady – Spine
- Charles Hannon – Adult Reconstruction
- Mick Kelly – Adult Reconstruction
- Joshua Bell – Adult Reconstruction – Cleveland Clinic
- Kevin Campbell – Adult Reconstruction – University of Utah
- Philip Louie – Spine – HSS
- Timothy Luchetti – Hand – UPMC
- Allison Rao – Sports – OrthoCarolina
- Bonnie Gregory – Sports – Duke University (Durham, NC)
- Molly Meadows – Sports – Stanford University (Palo Alto, CA)
- Bryan Saltzman – Sports – Sports Medicine & Shoulder Elbow – OrthoCarolina (Charlotte, NC)
- Robert Sershon – Adult Reconstruction – Anderson Orthopaedic Clinic (Washington, DC)
- Matthew Tetreault – Adult Reconstruction – Mayo Clinic (Rochester, MN)
- Brandon Erickson – Sports Medicine – Hospital for Special Surgery (New York, NY)
- Nathan Wetters – Sports Medicine & Shoulder Elbow – OrthoCarolina (Charlotte, NC)
- Yale Fillingham – Adult Reconstruction – The Rothman Institute (Philadelphia, PA)
- Rachel Frank – Sports Medicine – Rush University (Chicago, IL)
- Andrew Riff – Sports Medicine – Rush University (Chicago, IL)

- Nicholas Brown – Adult Reconstruction – Anderson Orthopaedic Clinic (Washington, DC)
- Bryan Haughom – Adult Reconstruction – Brigham and Women’s Hospital (Boston, MA)
- Michael Hellman – Adult Reconstruction – Washington University in St. Louis (St. Louis, MO)
- Jonathan Frank – Sports Medicine – The Steadman Clinic (Vail, CO)
- Peter Chalmers – Shoulder & Elbow – Washington University in St. Louis (St. Louis, MO)
- Laith Al-Shihabi – Hand – University of Cincinnati (Cincinnati, OH)
- William Slikker – Hand – Brigham and Women’s Hospital (Boston, MA)
- David Walton – Foot & Ankle – Duke University (Durham, NC)
- Sanjeev Bhatia – Sports Medicine – The Steadman Clinic (Vail, CO)
- Kevin Park – Spine – Massachusetts General Hospital (Boston, MA)
- Debdut Biswas – Hand – University of Washington (Seattle, WA)
- Christopher Gross – Foot & Ankle – Duke University (Durham, NC)
- Andrew Hsu – Foot & Ankle – OrthoCarolina (Charlotte, NC)
- Michael Ellman – Sports Medicine – The Steadman Clinic (Vail, CO)
- Brett Lenart – Shoulder & Elbow – The Rothman Institute at Thomas Jefferson (Philadelphia, PA)
- James Gregory – Shoulder & Elbow – Washington University in St. Louis (St. Louis, MO)
- Christopher Bayne – Hand – Mayo Clinic (Rochester, MN)
- Sameer Lodha – Hand – Duke University (Durham, NC)
- Richard Kang – Sports Medicine – Hospital for Special Surgery (New York, NY)
- Nickolas Garbis – Shoulder & Elbow – The Johns Hopkins University (Baltimore, MD)
- Cara Cipriano – Adult Reconstruction – Virginia Commonwealth University (Richmond, VA)  
Oncology – University of Toronto (Toronto, Canada)

#### One Year Research Fellows:

- Ophelie Lavoie-Gagne MS3 – University of California San Diego Medical School (San Diego, CA) (2019-2020)
- Enrico Forlenza MS3 – Georgetown University School of Medicine (Washington, DC), (2019-2020)
- Yining Lu MS3 – University of Illinois Chicago College of Medicine (Chicago, IL) (2018-2019)
- Bhavik H. Patel MS3 – University of California San Diego Medical School (San Diego, CA) (2018-2019)
- William Zuke MD– Cleveland Clinic Orthopedic Surgery Residency Program (Cleveland, OH) (2017-2018)
- Avinesh Agarwalla MS3 – Westchester Medical Center Orthopedic Surgery Residency Program, Valhalla (New York, NY) (2017-2018)
- Richard N Puzzitiello MS3 – Tufts Orthopedic Surgery Residency Program (Boston, MA) (2017-2018)
- Anirudh K. Gowd MS3 – Virginia Tech Medical School (Blacksburg, VA) (2017-2018)
- Alexander Beletsky MS3 – University of California San Diego (San Diego, CA) (2018-2019)
- Alexander Idarraga BA – University of Wisconsin (Madison, WI) (2018-2019)
- Beatrice Go MS1 – University of Pennsylvania (Philadelphia, PA) (2016-2017)
- Michael J. Collins MS4 – Loyola University Medical Center (Philadelphia, PA) (2015-2016)
- Tom Arns MS1 – Drexel University College of Medicine (Philadelphia, PA) (2015-2016)
- Zain Khazi MS3 -- University of Illinois Chicago College of Medicine (Chicago, IL) (2018-2019)

#### **Membership on student thesis committees: Not applicable**

#### **CONSULTING POSITIONS**

Scientific Advisory Board, Jace Medical 2013-2020

Consultant, Stryker Sports Medicine 2016-2020

#### **COMMUNITY SERVICE**

February 2020

Meniscal Pathology; Rush Orthopaedics Resident Talk Chicago, IL

February 2020

Multi-ligamentous Knee Injuries; Rush Orthopaedics Resident Talk Chicago, IL



May 2019	Orthobiologics, Shoulder & Knee Conditions, Optimal Outcomes: Rehab, Chicago, IL
March 2019	Update on Shoulder Injury in WC Patients, Tri Star Lunch, Chicago, IL
January 2019	Lane School Talk
December 2018	CTEI; Authentic Assessment Training Virtual Workshop
September 2018	ACL Talk
March 2018	Dr. Bernarch Bach Leadership Talk
March 2018	Biceps Talk
March 2018	ACL Isometry Talk
February 2018	Multi-Ligament Knee Talk
February 2018	Munster WC Talk
August 2017	WC Talk, Smith&Wollensky
August 2017	NW Indian Sports Med Talk
August 2017	Chicago Trauma Symposium Talk
April 2017	Naperville TSA Talk
April 24, 2017	PCL Treatment/Rush Talk
April 8, 2017	Total Shoulder Arthroplasty Talk
February 23, 2017	Clinic Talk
September 27, 2016	Indiana Golf Talk
August 19, 2016	Gunnar Anderson Talk/Moderator
June 13, 2016	Worker's Compensation Talk
February 1, 2016	Resident Talk, Massive Rotator Cuff Tear
June 13, 2016	Worker's Compensation Talk
May, 25 2016	Worker's Compensation Talk
October 20, 2015	Indiana Shoulder Talk
October 13, 2015	Indiana Shoulder Talk
August 15, 2015	Chicago Sports Medicine Symposium
January 9, 2015	SEAK National Worker's Compensation/Occupational Medical Talk
October 6, 2014	Knee Ligament Talk
September 30, 2014	Medical Student Lecture, Knee Trauma
September 12, 2014	Multiligament/PCL Talk
August 14, 2014	Impairment Talk
August 14, 2014	CDGA/Athletico Talk
July 29, 2014	Talk, Milwaukee, WI
April 11, 2014	Rehab Connections Talk, Adhesive Capsulitis/GIRD
April 3, 2014	Worker's Compensation Talk
March 24, 2014	Resident Talk, Contract Discussions
March 14, 2014	AAOS Talk
March 13, 2014	AAOS Talk
February 20, 2014	CPD Talk, Shoulder/Elbow
February 20, 2014	Ossur Talk
January 29, 2014	AAOS Presentation, Shoulder
January 27, 2014	Injury Prevention, Presentation
January 27, 2014	Multiligament Knee Injuries, Presentation
January 21, 2014	Sonoma Presentation
January 13, 2014	Massive Rotator Cuff Tears
November 21, 2013	Elmhurst Hospital, Clavicle Presentation
October 9, 2013	Fellow Talk, Rotator Cuff Impingement/Tendinosis
October 5, 2013	Accelerated Presentation
October 1, 2013	Medical Student Lecture, Knee Trauma
September 24, 2013	CorVel Lunch & Learn
August 29, 2013	Resident Case Presentation
August 8, 2013	Sports Med Talk, Sox Park
July 17, 2013	ATI Presentation
May 7, 2013	PT meeting/Martha Stewart
April 19, 2013	Diamond Mark Presentation
March 26, 2013	Medical Student Lecture

February 7, 2013	Presentation
January 28, 2013	MOR Multiligament Talk
January 15, 2013	Athletico Talk & Lunch
June 21, 2012	Worker's Compensation, Diamond Mark
May 24, 2012	Worker's Compensation, Biceps
May 2, 2012	Presentation
September 26, 2012	Naperville North Talk Shoulder
October 27, 2012	Golf Talk Shoulder Injury Prevention and Treatment
November 15, 2012	Novacare Worker's Compensation Talk
August 13, 2012	Rush Sports Conference Presentation, Physical Examination Shoulder
February 22, 2012	Presentation to Pediatric Doctors
February 21, 2012	Athletico Presentation
February 9, 2012	Worker's Compensation, Knee/Shoulder
February 7, 2012	Accelerated Talk, Labral Injuries
February 2, 2012	ATI Presentation
January 20, 2012	Rush Luncheon
January 18, 2012	Presentation, Shoulder/Reverse Shoulder Arthroplasty
January 18, 2012	Rehab INS Nurses Group

### **CLINICAL SERVICE**

1. Randomized Control Trial: Healicoil Anchor vs. Twinfix Anchor for RCR (S&N)  
Chubinskaya, Verma, Trenhaile, **Forsythe**.
  - IRB 12062003. CT scan at 6 months.
  - 37 enrolled subjects (32 MOR, 5 Rockford) (5 dropped out: 2 revision (1 Rockford/1 Elmhurst) & 3 lost to f/u).
2. Randomized Control Trial: Comparison of Constant Score pre/ post-injection for full-thickness tear rotator cuff patients and how shoulder pain interfere with patients' constant score?  
**Forsythe**, Collins, Arns, Cole, Yanke, Verma.
  - Looking at how pain interferes with ability to test strength.
  - RCT saline v lidocaine, IRB approved.
  - Registered on Clinicaltrials.gov - NCT02693444.
3. Randomized Control Trial: Arthroscopic suprapec vs. open subpec biceps tenodesis for anterior shoulder pain.  
Yanke, Romeo, Verma, **Forsythe**. IRB# :13081402.
  - RCT (and non-cuff patients), exclude subscap tears, revisions, prev infections.
  - Baseline, 3 months, 6 months, 12 months. Goal enroll 50 (10 enrolled, 1 failed).
  - Implant, surgeons use their preference. Approved and registered on clinicaltrial.gov.
4. Randomized Prospective Clinical Analysis of Ultrasound-guided vs. Landmark-guided Biceps Corticosteroid Injections.  
Romeo, **Forsythe**, Cole.
  - Finalizing protocol and exclusion criteria. Clinical Trials registered.
  - Enrollment goal ~40-60 patients.
5. Randomized Control Trial: Stem cell injections for rotator cuff repair.  
**Forsythe**, Verma, Cole, Romeo, Nicholson.
  - Goal: 100 patients, 2 arms with 50 patients each - with or without MSC injections with RCR
  - BMA and BMAC samples to go for flow cytometry (Jeff Martinson) and smear (quadruplicates of BMA and BMAC) (Ira Miller)
6. Randomized Control Trial: Tranexamic Acid Study in TSA/RTSA patients.  
Romeo, Nicholson, **Forsythe**.
  - Comparing blood loss in patients who receive TXA or placebo.
  - 40 patients enrolled.
  - Goal of 300 patients, 150 TSA, 150 RTSA.
7. Randomized Control Trial: Stem cell injections for ACL Reconstruction with allograft  
**Forsythe**, Verma, Cole, Yanke
  - Comparing allograft with injections of bone marrow aspirate concentrate.
  - 32 patients enrolled.

## **COMMITTEE AND ADMINISTRATIVE SERVICES**

### **Departmental**

Midwest Orthopedics at Rush Marketing Committee 2012-20  
 Midwest Orthopedics at Rush Compensation Committee 2017-20  
 Midwest Orthopedics at Rush Finance Committee 2020

### **University**

Vice-Chairman, Rush Health Finance Committee 2016-20

### **Other institutions**

American Orthopedic Society for Sports Medicine, Education Committee Member, 2018-2023  
 Major League Soccer (MLS) Medical Assessment and Research Committee (M-MARC) 2018-2020  
 Medical Director, Munster Specialty Surgery Center 2014-2020  
 Board of Managers, Munster Specialty Surgery Center 2015-2020

## **SCIENTIFIC AND SCHOLARLY ACTIVITIES (in reverse chronology starting with the most recent one; can be divided by international, national, regional, institutional, etc)**

### **Reviewer for Professional Journals**

- Journal of Orthopedics Reviewer (11/2012-present)
- Arthroscopy: The Journal of Arthroscopy and Related Surgery Reviewer (10/2009-present)
- American Journal of Sports Medicine Principal Reviewer (9/2008-present)
- Journal of Shoulder and Elbow Surgery (2/2018-present)

### **Invited Presentations at Regional, National, and International Meetings**

## **INTERNATIONAL**

### **◇ Podium Presentations**

- AANA World Series
- Delaying ACL Reconstruction Beyond 6 months from Injury Impacts Likelihood for Clinically Significant Outcome Improvement. **Forsythe B**, Lu Y, Patel BH, Nwachukwu BU, Beletsky A, Lavoie-Gagne O, Agarwalla A, Chahla J, Kym CR, Yanke AB, Cole BJ, Bush-Joseph CA, Bach BR, Verma NN. American Orthopaedic Society for Sports Medicine. Jul 2020, Seattle, WA.
- Nicholson G, **Forsythe B**. The Effect of Pain on Assessment of Rotator Cuff Tears: A Randomized Control Trial of Subacromial Injections. 14<sup>o</sup> International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
- Nicholson G, **Forsythe B**. Radiostereometric Analysis of Subpectoral versus Suprpectoral Biceps Tenodesis with Interference Screw Fixation. 14<sup>o</sup> International Congress of Shoulder and Elbow Surgery. Buenos Aires, Argentina, September 2019
- Cole BJ, Naveen N, Tauro TM, Southworth T, Beletsky A, Otte SR, Yanke AB, **Forsythe B**, Romeo AA, Verma NN. Prospective Randomized Trial of Biologic Augmentation with Mesenchymal Stem Cells in Patients Undergoing Arthroscopic Rotator Cuff Repair. American Shoulder and Elbow Surgeons 2019 Annual Meeting. New York, New York, October 2019
- **Forsythe B**, Agarwalla A, Puzzitiello RN. Revision ACL Reconstruction: Surgical Pearls and Pitfalls. Arthroscopy Association of North America: Instructional Course Lecture. Chicago, IL. April 2018.
- Zuke, WA; Leroux, TS; Gregory, B; Black, A; **Forsythe B**; Romeo, A.A., Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. Société Européenne pour la Chirurgie de l'Epaule et du Coude (SECEC) - European Society for Surgery of the Shoulder and Elbow (ESSSE) 2017 Congress. Berlin, Germany, September 2017.

- **Forsythe B**; Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year Follow-Up. American Orthopaedic Society for Sports Medicine Annual Meeting. Toronto, Canada, July 2017.
- Leroux, TS; Zuke, WA; Gregory, B; Black, A; **Forsythe B**; Romeo, AA; Cole, BJ; Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. American Orthopaedic Society for Sports Medicine Annual Meeting. Toronto, Canada, July 2017.

#### ◇ Peer Reviewed Abstracts/Posters

- How should we define clinically significant improvement on Patient-Reported Outcomes Measurement Information System (PROMIS) for patients undergoing Knee Meniscal Surgery? Okoroha KC, Lu Y, Nwachukwu BU, Beletsky A, Patel BH, Lavoie-Gagne O, Yanke AA, Verma NN, Cole BJ, Bush-Joseph C, Bach B, **Forsythe B**. American Orthopaedic Society for Sports Medicine. Jul 2020, Seattle, WA. (Poster)
- Mesenchymal Stem Cells in BTB allograft ACL reconstruction: A Prospective Randomized Controlled Trial. **Forsythe B**, Chahla J, Lavoie-Gagne O, Forlenza E, Patel BH, Lu Y, Agarwalla A, Puzitiello R, Cole B, Yanke A, Verma N, Bach B. American Association NA Annual Meeting. May 2020, Grapevine, TX. (Poster)
- Defining Clinically Significant Improvement on PROMIS for Patients Undergoing Knee Meniscal Surgery. Lu Y, Lavoie-Gagne O, Forlenza E, **Forsythe B**. American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
- Adductor Injuries in the National Basketball Association: Return to Play and Player Performance. Patel BH, Okoroha KC, Jildeh T, Lavoie-Gagne O, Forlenza E, Lu Y, Baker J, Nwachukwu B, Allen A, **Forsythe B**. American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
- ACL Reconstruction after 6 months from Injury Decreases Likelihood of Improved Clinical Outcomes. Lu Y, Lavoie-Gagne O, Forlenza E, **Forsythe B**. American Association of North America Annual Meeting. May 2020, Grapevine, TX. (Poster)
- Bone Marrow Aspirate Concentrate Augmentation for Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. **Forsythe B**, Patel B, Lu Y, Lavoie-Gagne O, Forlenza E, Agarwalla A, Puzitiello R, Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL. (Poster)
- Beletsky A, Nwachukwu B, Southworth T, Okoroha KC, Naveen N, Maheshwer B, **Forsythe B**, Verma, NV, Cole B, Yanke AB. Performance of PROMIS Instruments in Patients Undergoing ACL Reconstruction Compared to Cartilage Procedures. International Cartilage Regeneration and Joint Preservation Society (ICRS) annual meeting. Vancouver, Canada. October 2019.
- Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**, Verma NN, Cole BJ; Chicago/US. Predicting Complications and Extended Stay following Treatment of Chondral Lesions. International Cartilage Regeneration and Joint Preservation Society (ICRS) annual meeting. Vancouver, Canada. October 2019.
- Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**
- Manderle B, Gowd AK, Liu J, Beletsky A, Bush-Joseph C, Cole BJ, **Forsythe B**, Nicholson G, Verma NN. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Arthroscopic Association of North America annual meeting. 2019.
- Lu Y, Patel BH, Cvetanovich GL, Maclean IS, **Forsythe B**. Does Resident Involvement Have an Impact on Postoperative Complications After Rotator Cuff Repair? An Analysis Of 1598 Cases in The NSQIP Database. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.
- Lu Y, Beletsky A, Patel BH, Southworth T, Naveen N, Chahla J, **Forsythe B**
- Lu Y, Patel BH, Cvetanovich GL, MacLean IS, **Forsythe B**. Is There A Cost to Resident Education? An Analysis Of The Effect Of Resident Involvement In Anterior Cruciate Ligament Reconstruction: 8142 Cases In The NSQIP. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.

- **Forsythe B**, Lu Y, Patel BH, Puzzitiello RN, Agarwalla A, Yanke AB, Verma NN, Cole BJ. The Relationship Between Resilience and Insurance Status: The Effect on Rotator Cuff Repair Outcomes. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress 2019.
- **Forsythe B**, Lu Y, Patel B, Agarwalla A, Puzzitiello RN, Yanke AB, Verma NN, Cole BJ. The Relationship Between Resilience and Insurance Status: The Effect on Meniscectomy Outcomes. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting 2019.
- Nwachukwu B, Lu Y, Patel BH, Puzzitiello RN, Cvetanovich GL, **Forsythe B**. Patient Satisfaction After Shoulder Stabilization Surgery: A Comparison of Bankart And Latarjet Procedures. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting/ 2019.
- Nwachukwu B, Patel BH, Lu Y, Puzzitiello RN, Cvetanovich, GL, Chahla J, **Forsythe B**. Establishing Timeline To Maximal Medical Improvement (MMI) Following Shoulder Stabilization Surgery. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. 2019.
- Agarwalla A, Gowd AK, Liu JN, Garcia GH, Bohl DD, Verma NN, **Forsythe B**. The Effect of Operative Time on Short-Term Adverse Events Following Isolated Anterior Cruciate Ligament Reconstruction. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine Congress. Cancun, Mexico. May 2019.
- Puzzitiello RN, Agarwalla A, Zuke WA, Garcia GH, **Forsythe B**. Diagnosis of Injury to the Anterolateral Ligament in Patients with Anterior Cruciate Ligament Injuries: A Systematic Review. Arthroscopic Association of North America. Chicago, IL. April 2018.
- Agarwalla A, Puzzitiello RN, Zuke WA, Cole BJ, Verma NN, Yanke AB, Romeo AA, **Forsythe B**. The Relationship between Resilience and Insurance Status: The Effect on Rotator Cuff Repair Outcomes. Arthroscopic Association of North America. Chicago, IL. April 2018.
- Puzzitiello, R.N., Agarwalla, A, Zuke, W.A., Garcia, G.H., **Forsythe B**. (April, 2018). Evaluating Anterolateral Ligament (ALL) Injuries of the Knee: A Systematic Review. Poster presented at: Arthroscopy Association of North America Annual Meeting. Chicago, IL. April 2018.
- Puzzitiello R.N., Agarwalla, A, Zuke, W.A., Verma, N.N, Cole B.J., Yanke, A, Romeo, A.A, **Forsythe B**. (April, 2018). The Relationship between Resilience and Insurance Status; The effect on Rotator Cuff Repair Outcomes. Arthroscopy Association of North America Annual Meeting. Chicago, IL. April 2018.
- **Forsythe B**; Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year FollowUp. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. Shanghai, China, June 2017.
- Sherman, SL; Zuke WA; Go, B; Thyssen, E; Cvetanovich, GL; Hannafin, JA; **Forsythe B**. A Multicenter Study Investigating Factors that Influence Initiation of Return to Sport Functional Testing Following ACL Reconstruction. International Society of Arthroscopy, Knee Surgery, and Orthopaedic Sports Medicine annual meeting. Shanghai, China, June 2017.
- **Forsythe B**; Zuke, WA; Go, B; Verma, NN; Cole, BJ; Bach, BR; Nozomu, I. Dynamic 3D Mapping of the Isometric Anterior Cruciate Ligament Attachment Sites on the Tibia and Femur. Arthroscopy Association of North America annual meeting. Denver, CO. May 2017.
- Leroux, TS; Zuke, WA; Gregory, B; Black, A; **Forsythe B**; Romeo, AA; Cole, BJ; Verma, NN. Establishing Maximal Medical Improvement in Arthroscopic Rotator Cuff Repairs. Arthroscopy Association of North America annual meeting. Denver, CO. May 2017.
- Gupta AK, Lee AS, **Forsythe B**, Harris JD, McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces:A search for the ideal match for glenoid resurfacing. Arthroscopy Association of North America annual meeting. San Antonio, TX. April 2013.
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## NATIONAL

### ◇ Podium Presentations

- Mesenchymal Stem Cells in BTB allograft ACL reconstruction: A Prospective Randomized Controlled Trial. **Forsythe B**, Chahla J, Lavoie-Gagne O, Forlenza E, Patel BH, Lu Y, Yanke AB, Verma NN, Bach BR. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
- Defining Clinically Significant Improvement on PROMIS for Patients Undergoing Knee Meniscal Surgery. Okoroha K, Lu Y, Nwachukwu BU, Beletsky A, Patel BH, Yanke AB, Verma NN, Cole BJ, Bush-Joseph CA, Bach BR, **Forsythe B**. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
- Adductor Injuries in the National Basketball Association: Return to Play and Player Performance. Patel PH, Okoroha K, Jildeh TR, Lu Y, Baker JD, Nwachukwu BU, Allen AA, **Forsythe B**. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
- ACL Reconstruction after 6 months from Injury Decreases Likelihood of Improved Clinical Outcomes. **Forsythe B**, Lu Y, Patel BH, Nwachukwu BU, Beletsky A, Agarwalla A, Chahla J, Kym CR, Yanke AB, Cole BJ, Bush-Joseph CA, Bach BR, Verma NN. Arthroscopy Association of North America Annual Meeting. May 2020. Grapevine, TX.
- Adverse Impact of Corticosteroid Injection on Rotator Cuff Tendon Health and Repair: A Systematic Review of Clinical and Basic Science Studies. Richard Puzzitiello, Bhavik Patel, Benedict U Nwachukwu, Answorth Anthony Allen, **Brian Forsythe**, Matthew J Salzler. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Rates and Risk Factors for Subsequent Non-Rotator Cuff Shoulder Surgery Following Arthroscopic Rotator Cuff Repair. **Brian Forsythe**, Jourdan Michael Cancienne, Bhavik Patel, Yining Lu, Brian C Werner. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Delaying ACL Reconstruction Beyond 6 months from Injury Impacts Likelihood for Clinically Significant Outcome Improvement. Yining Lu, Alexander M Beletsky, Benedict U Nwachukwu, Bhavik Patel, Avinesh Agarwalla, Jorge A Chahla, Nikhil N Verma, Brian J Cole, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Perioperative Opioid Use Predicts Postoperative Opioid Use and Inferior Outcomes after Shoulder Arthroscopy. Yining Lu, Alexander M Beletsky, Matthew R Cohn, Bhavik Patel, Jourdan Michael Cancienne, Adam Blair Yanke, Nikhil N Verma, Brian J Cole, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Psychometric Properties of Visual Analog Scale Assessments For Function, Pain and Strength Compared to Disease Specific Upper Extremity Outcome Measures in Rotator Cuff Repair. Beletsky A, Nwachukwu BU, Gorodischer T, Chahla JA, **Forsythe B**, Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- The Minimally Clinically Important Difference (MCID) and Substantial Clinical Benefit (SCB) in Anterior Cruciate Ligament Reconstruction: Predictors Of Time To Achievement. Beletsky A, Lu Y, Nwachukwu BU, Chahla JA, Okoroha KC, **Forsythe B**, Yanke AB, Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Open Architecture Anchors for Rotator Cuff Repair: Do they Move the Needle? A Randomized Controlled Trial. Chahla J, Liu J, Manderle B, Beletksy A, Cabarcas BC, Gowd AK, Inoue N, Chubinskaya SG, Trenhaile SW, **Forsythe B**, Cole BJ, Verma NN. American Shoulder and Elbow Surgeons 2019 Annual Meeting. October 2019, New York City, NY.
- Prospective Randomized Trial of Biologic Augmentation with Mesenchymal Stem Cells in Patients Undergoing Arthroscopic Rotator Cuff Repair. Cole BJ, Naveen N, Tauro TM, Southworth T, Beletsky A, Otte SR, Yanke AB, **Forsythe B**, Romeo AA, Verma NN. American Shoulder and Elbow Surgeons 2019 Annual Meeting. October 2019, New York City, NY.
- Return to Sport and Exercise Following Repair of the Pectoralis Major Tendon. Liu J, Gowd AK, Garcia GH, Manderle BJ, Beletsky AK, Nicholson GP, Cole BJ, **Forsythe B**. AOSSM. July 2019, Boston, MA.
- Inside the First Team Training Room – New Modalities, Performance and Analytics: Technology Now a Tool to Determine Return to Play. **Forsythe B**. AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.
- Inside the First Team Training Room – New Modalities, Performance and Analytics: Cases, Expert Panel Discussion: Osbahr DC, **Forsythe B**. AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.

- Patellofemoral Injuries in the Elite and Youth Player: Case Presentations with Panel Discussion: Ahmad CS, **Forsythe B.** AOSSM. Soccer/MLS Soccer Sports Medicine Course. September 2019, Miami, FL.
- ACL and MCL Advanced Issues: ACLR Reconstruction Graft Options. **Forsythe B.**
- ACL and MCL Advanced Issues: Cases, Expert Panel Discussion. Ahmad CS, **Forsythe B.**
- Special Consideration for Academy and College Development Players: Roundtable Discussion: Organizational Approach to an Academy System: Ahmad CS, **Forsythe B.**
- Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B.** Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. AANA annual meeting, May 2019.
- Beletsky A, Patel BH, Lu Y, Manderle B, **Forsythe B,** Verma NN. The Opportunity Cost of Resident Involvement in Academic Orthopedic Sports Medicine. AANA annual meeting, May 2019.
- Beletsky A, Lu Y, Patel BH, Cvetanovich GL, Chahla J, **Forsythe B,** Verma NN. Should We Question the External Validity of Database Studies? A Comparative Analysis of Demographics. AANA annual meeting, 2019.
- Beletsky A, Gowd AK, Liu J, Manderle B, Bush-Joseph C, **Forsythe B,** Cole BJ, Verma NN, Clinically Significant Outcomes in Isolated Arthroscopic Partial Meniscectomy: A Multivariate Time-To-Event Analysis. AANA annual meeting, 2019.
- **Forsythe B,** Cartilage Repair Surgeries in Elite Athletes: What Do We Know About Their Future Arthritis? Major League Soccer Medical Symposium. Orlando, FL. January 2019
- Moderator: **Forsythe B,** Panel: Mandelbaum, B, Ahmad, C, Difiori, J, Martinez, M. Lead, Follow, or Get Out of The Way. Is Major League Soccer Leading Medical Care in Professional Athletes? A panel discussion among professional team physicians comparing, contrasting, and highlighting opportunities to improve delivery of care within the soccer population. Major League Soccer Medical Symposium. Orlando, FL. January 2019
- Moderator: Gerhardt, M. Panel: **Forsythe B,** Mandelbaum, B, Ahmad, C, Kadavi, M, Panel discussion: BMAC, PRP, Cartilage “What are they getting and from Whom?” Major League Soccer Medical Symposium. Orlando, FL. January 2019
- Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B.** Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. American Orthopaedic Society of Sports Medicine Specialty Day. Las Vegas, NV. March 2019.
- Cvetanovich GL, Puzzitiello RN, Agarwalla A, Liu JN, Gowd AK, Cole BJ, Romeo AA, Verma NN, **Forsythe B.** Radiostereometric Analysis of Subpectoral Versus Suprapectoral Biceps Tenodesis with Interference Screw Fixation. Arthroscopic Association of North America. Orlando, FL. May 2018.
- **Forsythe B,** Agarwalla A, Puzzitiello RN, Verma NN, Romeo AA, Cole, BJ. How Pain Affects Rotator Cuff Tear Strength Testing: A Randomized Subacromial Injection Control Trial. Arthroscopic Association of North America. Chicago, IL. April 2018.
- **Forsythe B,** Puzzitiello RN, Agarwalla A, Waterman BR, Zuke WA, Cole BJ, Verma NN, Yanke AB. Clinical Outcomes of Isolated Medial Patellofemoral Ligament Reconstruction in Patients with Patella Alta and Excessive Rotational Malalignment. Arthroscopic Association of North America. Chicago, IL. April 2018.
- **Forsythe B,** Waterman BR, Puzzitiello RN, Agarwalla A, Zuke WA, Cole BJ, Verma NN, Yanke AB. Isolated Medial Patellofemoral Ligament Repair versus Reconstruction: Rates and Risk Factors for Instability Recurrence in a Young, Active Population. Arthroscopic Association of North America. Chicago, IL. April 2018.
- **Forsythe B,** Puzzitiello, R.P., Liu, J.N. Revision Anterior Cruciate Ligament Pearls and Pitfalls: An Instructional Course Lecture. Arthroscopy Association of North American Annual Meeting; Chicago, IL, USA. April 2018.
- **Forsythe B;** Zuke, WA; Go, B; Yanke, AB; Verma, NN; Romeo, AA. Randomized Prospective Analysis of Arthroscopic Suprapectoral and Open Subpectoral Biceps Tenodesis: 1 Year Follow-Up. Arthroscopy Association of North America annual meeting, Denver, CO, May 2017.
- **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 27, 2015. Las Vegas, NV.
- Leland MJ, **Forsythe B.** Practice Marketing The Social Media Explosion: Development of Physician Websites. *Instructional Course Lecture AANA 34<sup>rd</sup> Annual National Meeting.* Los Angeles, April 24, 2015.

- **Forsythe B.** Board Review Course: Podium Presentation Shoulder. Moderator, Leesa Galatz. AAOS Annual Meeting, March 14, 2014. New Orleans, LA.
- Yanke AB, Cvetanovich G, Shin J, **Forsythe B**, Cole BJ, Bach BR Jr., Inoue N, Verma N. Varied Graft Sources for Distal Femoral Condyle Osteochondral Allografts. AANA Meeting, Hollywood, FL. May 1-3, 2014
- Leland MJ, **Forsythe B**, Geier D. Course 201: Practice Marketing The Social Media Explosion: Development of Physician Websites. *Instructional Course Lecture AANA 33<sup>rd</sup> Annual National Meeting*. May 2, 2014. Hollywood, FL
- Frank RM, Lundberg HJ, Trombley R, Wimmer MA, **Forsythe B**, Bush-Joseph CA, Bach BR, Verma NN, Cole BJ. Hamstring Activity in the ACL Injured Patient: Injury Implications and Comparison to Quadriceps Activity. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, March 15-18, 2014.
- Gupta AK, Lee AS, **Forsythe B**, Harris JD, McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces :A search for the ideal match for glenoid resurfacing. International Society of Arthroscopy, Knee Surgery and Orthopaedic Sports Medicine (ISAKOS). Bi-annual Meeting. Toronto CA, May 14, 2013.
- Leland MJ, **Forsythe B**, Mather RC. Course 201: Practice Marketing - What Web-Based Services and Social Media Can Do for You and Your Practice: Development of Physician Websites. *Instructional Course Lecture AANA 32<sup>nd</sup> Annual National Meeting*. April 26, 2013. San Antonio, Texas.
- **Forsythe B.** Examination of the Unstable knee and treatment of Patellofemoral Instability. *ATI National Sports Medicine Summit*. Oak Brook, IL, August 12<sup>th</sup>, 2012.
- **Forsythe B.** Elective Orthopedic Surgery: The Team Approach to the Treatment of Hemophilia. *Center for Advanced Training in Inhibitor Management Symposium*. Marriott, Chicago Medical District. Rush University Medical Center, May 2<sup>nd</sup>, 2012
- Kropf EJ, **Forsythe B**, Tranovich M, Baker CL, Irrgang JJ. Allograft Revision vs. Primary Single Bundle Anterior Cruciate Ligament Reconstruction: A Case-Control Study. Presented to *American Orthopedic Society for Sports Medicine, Specialty Day*. Las Vegas, NV, February 2009.
- Bradley JP, **Forsythe B.** Single versus Double Bundle ACL Reconstruction. *Metcalf Course*. Sun Valley, Utah. February, 2008.
- Bradley JP, **Forsythe B.** Anterior Instability in Contact Athletes. Instructional Course Lecture. *American Academy of Orthopedic Surgery*. San Francisco, March, 2008.
- **Forsythe B**, Guss D, Anthony S, Martin SD: Concomitant Arthroscopic SLAP Lesion and Rotator Cuff Repair versus Isolated Rotator Cuff Repair: A Retrospective Analysis. Presented to *American Orthopedic Society for Sports Medicine*, Calgary, Canada, July, 2007.

#### ◇ Peer Reviewed Abstracts/Posters

- Drager J, Polce EM, Fu MC, Huddleston HP, Williams BT, Garrigues GE, **Forsythe B**, Nicholson GP, Cole BJ, Verma NN. Defining the Time Required to Achieve Clinically Significant Outcome Improvement after Total Shoulder Arthroplasty. AAOS 2021 Annual Meeting, San Diego, CA
- Performance Following High Ankle Sprain in National Football League Players from 2009-2010 to 2019-2020. American Academy of Orthopaedic Surgeons Annual Meeting. September 2021. San Diego, CA
- Defining Maximum Outcome Improvement 1-year After Arthroscopic Rotator Cuff Repair. Edward Beck, Anirudh Gowd, Joseph Liu, Kristen Nicholson, Brian Waterman, **Brian Forsythe**, Anthony Romeo, Brian Cole, Nikhil Verma. Southern Orthopaedic Association's 37<sup>th</sup> Annual Meeting. July 2020. White Sulphur Springs, WV.
- Big Data in Total Shoulder Arthroplasty: An In-Depth Comparison of National Outcomes Databases. Yining Lu, Zain M Khazi, Bhavik Patel, Avinesh Agarwalla, Jourdan Michael Cancienne, Brian C Werner, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Inpatient Admission following Anterior Cruciate Ligament Reconstruction is Associated with Higher Postoperative Complications: A Matched Cohort Analysis. Yining Lu, Zain M Khazi, Bhavik Patel, Alan G Shamrock, Randhir Mascarenhas, **Brian Forsythe**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Bone Marrow Aspirate Concentrate Augmentation for Anterior Cruciate Ligament Reconstruction: A Double Blinded Randomized Controlled Trial. **Forsythe B**, Patel B, Lu Y, Agarwalla A, Puzitiello R,



Yanke AB, Verma NN, Cole BJ, Chahla JA. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.

- Anterior Cruciate Ligament Repair Outcomes: An Updated Systematic Review of Recent Literature. Nwachukwu BU, Patel B, Lu, Y **Forsythe B**, Allen AA, Williams RJ. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Opioid Use Following Anatomic and Reverse Total Shoulder Arthroplasty: Risk Factors for Prolonged Use. Khazi ZM, Lu Y, Patel B, Cancienne J, Werner B, **Forsythe B**. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Manderle B, Gowd AK, Liu J, Beletsky A, Nicholson GP, Romeo AA, **Forsythe B**, Cole BJ, Verma NN. American Academy of Orthopaedic Surgeons Annual Meeting. March 2020. Orlando, FL.
- Frank RM, Mascarenhas R, Haro M, Erickson BJ, Cvetanovich GL, **Forsythe B**, Verma NN, Cole BJ, Bush-Joseph CB, Bach BR Jr. Closure of Patellar Tendon Defect in Anterior Cruciate Ligament Reconstruction with Bone-Patellar Tendon-Bone Autograft: Systematic Review of Randomized Controlled Trials. (eposter-2014 AANA Annual Meeting. Hollywood, FL)
- Saccomano M, Shin J, Mascarenhas R, Haro M, **Forsythe B**, Verma NN, Cole BJ, Bush-Joseph C, Bach BR Jr. Clinical and Functional Outcomes Following Anterior Cruciate Ligament Reconstruction Using Cortical Button Fixation Versus Transfemoral Suspensory Fixation: A Systematic Review (Eposter-2014 AANA Annual Meeting. Hollywood, FL)
- Manderle BJ, Gowd AK, Liu J, Beletsky A, Bush-Joseph CA, Cole BJ, **Forsythe B**, Nicholson GP. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA.
- Okoroha K, Patel BH, Lu Y, Idarraga AJ, **Forsythe B**. Concussions in the National Basketball Association: An Analysis from 1999-2018. Abstract accepted as poster presentation to AOSSM July 2019 in Boston, MA. **AOSSM 2019 Poster Award Winner.**
- Agarwalla A, Gowd AK, Liu JN, Puzzitiello RN, Yanke AB, Verma NN, **Forsythe B**. Risk Factors and 30-Day Complication Rates Following Medial Patellofemoral Ligament (MPFL) Reconstruction and Tibial Tubercle Osteotomy (TTO). American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- Agarwalla A, Gowd AK, Liu JN, Garcia GH, Bohl DD, Verma NN, **Forsythe B**. The Effect of Operative Time on Short-Term Adverse Events Following Isolated Anterior Cruciate Ligament Reconstruction. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- Liu JN, Agarwalla A, Gowd AK, Nicholson GP, Romeo AA, **Forsythe B**, Verma NN. Reverse Total Shoulder Arthroplasty for Proximal Humerus Fracture is Not a Typical DRG 484: A Propensity-matched Cohort Study. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- Agarwalla A, Puzzitiello RN, Liu JN, Cvetanovich GL, Gowd AK, Verma NN, Cole BJ, **Forsythe B**. Time-frame for Maximal Subjective Outcome Improvement Following Anterior Cruciate Ligament Reconstruction. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- Liu JN, Agarwalla A, Garcia GH, Christian DR, Redondo ML, **Forsythe B**, Yanke AB, Cole BJ. Return to Sport Following High Tibial Osteotomy. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- **Forsythe B**, Agarwalla A, Puzzitiello RN, Romeo AA, Mascarenhas R. The Timing of Injections Prior to Rotator Cuff Repair Impacts Risk of Surgical Site Infection. American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 2019.
- **Forsythe B**; Zuke, WA; Lansdown, DA; Verma, NN; Cole, BJ; Bach, BR; Nozomu, I. Dynamic 3D Mapping of the Isometric Anterior Cruciate Ligament Attachment Sites on the Tibia and Femur. Paper presentation at the American Academy of Orthopaedic Surgeons 2018 Annual Meeting. New Orleans, LA. March 2018.
- Leroux, TS; Zuke, WA; Saltzman, BM; Verma, NN; Romeo, AA; Hurst, J; **Forsythe B**. Safety and Patient Satisfaction of Outpatient Shoulder Arthroplasty. ePoster presentation at the American Shoulder and Elbow Surgeons annual closed meeting. New Orleans, Louisiana, October 2017.

- **Forsythe B**, Khair M, Collins M, Arns T, Inoue N, Bach BR, Verma NN, Cole BJ. Optimizing Femoral Tunnel Position with Flexible Curved Reamers for Anterior Cruciate Ligament Reconstruction. Presentation 224. Annual Meeting, AANA. Boston, April 14-16, 2016.
- Collins M, Arns T, Leroux T, Black A, Mascarenhas R, Bach BR, **Forsythe B**. Growth Abnormalities Following Anterior Cruciate Ligament Reconstruction in the Skeletally Immature Patient: A Systematic Review. Presentation 284. Annual Meeting, AANA. Boston, April 14-16, 2016.
- **Forsythe B**, Haro M, Collins M, Arns T, Verma N, Bach BR. Biomechanical Evaluation of Posterior Cruciate Ligament Reconstruction with Quadriceps versus Achilles Tendon Bone Block Allograft. Presentation 262. Annual Meeting, AANA. Boston, April 14-16, 2016.
- **Forsythe B**, Collins M, Arns T, Black A, Tranovich M, Ward J, Bradley J. Application of a Beta-Tricalcium Phosphate ( $\beta$ -TCP) Graft to Diminish Harvest Site Morbidity in Bone-Patella Tendon-Bone Anterior Cruciate Ligament Reconstruction. Presentation 219. Annual Meeting, AANA. Boston, April 14-16, 2016.
- Cole BJ, Fortier LA, Karas V, Hussey KE, Tilton AK, Merkow DB, Verma NN, Bach BR, **Forsythe B**. Hyaluronic Acid versus Platelet-Rich Plasma Double-Blind Randomized Controlled Trial Comparing Clinical Outcomes and Intra-Articular Biology for Treatment of Knee Arthritis. Presentation 22. Annual Meeting, AANA. Los Angeles, April 23-25, 2015.
- Riboh J, Mascarenhas R, Haro M, Shin J, Ross A, Verma N, **Forsythe B**, Bach B. Are Standard Post-Operative Anteroposterior and Lateral Knee Radiographs Predictive of Anatomic Femoral Tunnel Placement in ACL Reconstruction? Presentation 1. Annual Meeting, AANA. Los Angeles, April 23-25, 2015.
- Gupta AK, **Forsythe B**, Lee AS, Harris JD, McCormick FM, Abrams GD, Verma NN, Inoue N, Cole BJ. Topographic analysis of the glenoid and proximal medial tibial articular surfaces - A search for the ideal match for glenoid resurfacing. Poster Presentation at 2013 Annual AOSSM Meeting. August 9th, 2013. Presenter: Anil K. Gupta, MD, MBA
- Gupta AK, Lee AS, **Forsythe B**, Harris JD, McCormick F, Abrams G, Verma N, Cole BJ, Inoue N. Topographic analysis of the glenoid and proximal medial tibial articular surfaces: A search for the ideal match for glenoid resurfacing. Poster presentation. AOA Annual Meeting. Denver, June 7, 2013. Presenter: Anil K. Gupta, MD, MBA
- Lee AS, Karas V, Riccio ML, Yanke AB, **Forsythe B**, Nho SJ, Verma NN, Bush-Joseph CA, Bach BR, Cole BJ, MD. Surgeon Reliability in Calcified Cartilage Layer Removal: Open Versus Arthroscopic Technique. AOSSM Baltimore, MD, 7/12/12. (Poster 10899)
- Kopf S., **Forsythe B.**, Wong A., Martins C., Tashman S., Anderst W., Irrgang J., Fu F. Transtibial ACL reconstruction technique fails to position drill tunnels anatomically. European Society of Sports Traumatology, Knee Surgery, and Arthroscopy. 14th ESSKA Congress. June 9-12, 2010. Oslo/Norway. #P13-816
- Henry S, Mascarenhas, R, **Forsythe B**, Irrgang JJ, Harner CD: The relationship between medial meniscus tear morphology and chondral changes within medial and lateral compartments of the knee. American Orthopedic Society for Sports Medicine, Orlando, 2008. Poster #9.
- Kropf E, **Forsythe B**, Irrgang JJ, Harner CD: Revision vs. Primary Single Bundle Anterior Cruciate Ligament Reconstruction: A Case Control Study. American Academy of Orthopedic Surgery. San Francisco, 2008.
- **Forsythe B**, Guss D, Anthony S, Martin SD: Concomitant Arthroscopic SLAP Lesion and Rotator Cuff Repair versus Isolated Rotator Cuff Repair: A Retrospective Analysis. American Academy of Orthopedic Surgery. Poster 443. San Francisco, 2008.
- **Forsythe B**; Gobezie R; Tsaniklides N; Warner JP. Salvage of Acromionectomy and Deltoid Insufficiency with Iliac Crest Graft and Deltoid Reconstruction. American Academy of Orthopedic Surgery. Chicago, 2006. Poster P344.

## REGIONAL

### ◇ Podium Presentations

- Zuke WA, **Forsythe B**, Leroux TS, Risk Factors for Readmission and Complications within Thirty Days of Total Shoulder Arthroplasty: Inconsistencies among Studies Using the NSQIP Database. Ohio Shoulder and Elbow Society, Cleveland, IL, February 2019

- **Forsythe B**, Moderator, Chicago Sports Summit. Chicago, IL, October 2018
- **Forsythe B**, ACL Anatomy and Portal Drilling. Chicago Sports Medicine Symposium. Chicago, IL, September 2018
- **Forsythe B**, Ramirez M, Debate: Open vs Arthroscopic Rotator Cuff Repair, Chicago Orthopedic Symposium Chicago, IL, August 2018
- **Forsythe B**, Agarwalla A, Puzzitiello RN. My ACL: From Cadaver to Camera. Elsevier's Innovative Techniques: Knee, Hip, and Shoulder Course. Las Vegas, NV. October 2017.
- **Forsythe B**, Agarwalla A, Puzzitiello RN. ACL Anatomy and Isometry. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
- **Forsythe B**, Puzzitiello, R.P. ACL Anatomy and Isometry. Oral Presentation presented at: Chicago Sports Medicine Symposium; Chicago, IL, USA. August 2017.
- **Forsythe B**, Agarwalla A, Puzzitiello RN. My ACL: From Cadaver to Camera. Foundation for Orthopaedic Research and Education: Sports Medicine Symposium. Chicago, IL. August 2017.
- **Forsythe B**, Nho SJ, Rodarte R. Current Trends in Management of Rotator Cuff Pathology. *Nova Care Case Managers Symposium*. U.S. Cellular Field/Chicago White Sox. Chicago, IL. November 15<sup>th</sup>, 2012.
- **Forsythe B**. New Vision and Interventions in Orthopedic Care for the Shoulder. *Elmhurst Hospital*. Elmhurst, IL, November 7<sup>th</sup>, 2012.
- **Forsythe B**. Management of Distal Biceps Tendon Disease. *Orthocentrix Solutions Spring Seminar*. Oak Brook, IL. May 24<sup>th</sup>, 2012.
- **Forsythe B**, Nicholson G. Understanding and Addressing Chronic Shoulder Pain. *Central Dupage Hospital*. Winfield, IL, October 30<sup>th</sup>, 2012.
- **Forsythe B**. Current Trends in Management of Rotator Cuff Pathology. Webinar, Nova Care Case Managers Symposium, June 25<sup>th</sup>, 2012.
- **Forsythe B**. Current Concepts in Treatment of Acromioclavicular Joint Injuries and Clavicle Fractures. *Diamond Mark Presentation*. OAK Brook, IL, June 21<sup>st</sup>, 2012.
- **Forsythe B**. Current management of Clavicle Fractures and Acromioclavicular Ligament Reconstruction. *Athletico Case Managers Symposium*. OAK Brook, IL, June 21<sup>st</sup>, 2012.
- **Forsythe B**. Clavicle Fractures: Operative Indications and Surgical Fixation Options. *Midwestern University Department of Orthopedics*. Chicago, IL. February 22, 2011.
- **Forsythe B**. Current concepts in ACL Reconstruction. *ATI Physical Therapy Lecture Series*. New Lenox IL. February 17<sup>th</sup>, 2010.

#### ◇ Peer Reviewed Abstracts/Posters

- Puzzitiello, R.P., Agarwalla, A, Romeo, A, Yanke, A, Cole, B, Verma, N, **Forsythe B**. (March, 2018). Establishing Maximal Medical Improvement after Total Shoulder Arthroplasty Poster presented at: Rush University Forum for Research and Clinical Investigation; Chicago, IL, USA.
- Agarwalla, A, Puzzitiello, R.N., Romeo, A, Mascarenhas, R, **Forsythe B**. (March, 2017). The Timing of Intraarticular Injections Prior to Rotator Cuff Repair Impacts the Risk of Surgical Site Infection Poster presented at: Rush University Forum for Research and Clinical Investigation; Chicago, IL, USA
- Christian DR, Wang KC, Agarwalla A, Redondo ML, Beer AJ, **Forsythe B**, Verma NN, Cole BJ. Impact of Depression, Anxiety, and/or Mania on Functional Outcomes After Simple Meniscectomy. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.
- Agarwalla A, Puzzitiello RN, Liu JN, Cvetanovich GL, Verma NN, Cole BJ, **Forsythe B**. Establishing Maximal Medical Improvement Following Anterior Cruciate Ligament Reconstruction. Rush University Sports Medicine Conference. Chicago, IL. February 2018.
- Agarwalla A, Puzzitiello RN, Mascarenhas R, Sumner S, Verma NN, Romeo AA, **Forsythe B**. The Timing of Shoulder Injections Prior to Rotator Cuff Repair Impacts the Risk of Surgical Site Infection. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.
- Puzzitiello RN, Agarwalla A, Liu JN, Cvetanovich GL, Romeo AA, **Forsythe B**, Verma NN. Establishing Maximal Medical Improvement After Anatomic Total Shoulder Arthroplasty. Rush University Forum for Research and Clinical Investigations. Chicago, IL. March 2018.

- **Forsythe B.** Management of Irreparable Rotator Cuff Tears. *Rush Fellows Conference*. Chicago, IL. January 13, 2014.
- Frank RM, Lundberg HJ, Trombley R, Wimmer MA, **Forsythe B**, Bush-Joseph CA, Bach BR, Verma NN, Cole BJ. Hamstring Activity in the ACL Injured Patient: Injury Implications and Comparison to Quadriceps Abstract. PAPER #: 170. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, LA. March 2014.
- Trella KJ, Shewman EF, Tenuto F, McCormick F, Ellman M, Verma N, Bach BR, **Forsythe B.** Biomechanical Evaluation of Posterior Cruciate Ligament Reconstruction with Quadriceps vs. Achilles Tendon-Bone Block Allograft. Annual Orthopedic Research Society (ORS) Meeting. New Orleans, LA. March 2010.
- Kopf S, **Forsythe B**, Wong A, Martins C, Tashman S, Anderst W, Fu F. Transtibial ACL reconstruction technique fails to position drill tunnels anatomically. Orthopaedic Research Society. New Orleans, LA. March 2010
- Kopf S, Wong A, **Forsythe B**, Tashman S, Anderst W, Fu FH. Where Have All the Tunnels Gone? Non-anatomical tunnel position in Transtibial Anterior Cruciate Ligament Reconstruction Evaluated by Three-Dimensional Computed Tomography. *Pittsburgh Orthopaedic Journal*. Volume 20. Page 102. 2009.
- **Forsythe B**, Kopf S, Wong A, Martins CAQ, Anderst W, Tashman S, Fu FH. The Location of Femoral and Tibial Tunnels of Anatomic Double Bundle Anterior Cruciate Ligament Reconstruction Analyzed by Three-Dimensional Computed Tomography Reconstructions. *Pittsburgh Orthopaedic Journal*. Volume 20. Page 101. 2009.
- Kropf EJ, **Forsythe B**, Tranovich M, Baker III CL, Irrgang JJ, Harner CD. Revision versus primary single bundle anterior cruciate ligament reconstruction: A matched pairs case control study. *Pittsburgh Orthopaedic Journal*. Volume 19. 2008.
- Goyal K, **Forsythe B**, Costanzo J, Muriuki M, Zhang X, Harner CD: The Effect of Lateral Meniscus Tear Morphology on Knee Joint Kinematics and Contact Pressures. Orthopedic Research Society. Las Vegas. 2009. Poster 1190.
- Chen, F; **Forsythe B**; Lee, S J; Yoo, J J; Murray, M M. The Effect of Thrombin on ACL Cell Migration, Proliferation, and Collagen Production. Orthopedic Research Society. Washington D.C., 2005. Poster 0827.
- Presenter: Hsu A. Moderator: **Forsythe B**. Management of Femoral Shaft Fractures. *Rush Residents Conference*. Chicago, IL, November 11<sup>th</sup>, 2013.
- **Forsythe B.** Management of Multi-Ligamentous knee injuries. *Rush Sports Medicine Conference*. Chicago, IL, January 28, 2013.
- **Forsythe B.** Management of Multi-Ligamentous Knee Injuries. *Athletico Physical Therapy*. Westchester, IL. January 15<sup>th</sup>, 2013.
- Moderator: **Brian Forsythe, MD**. Presenter: Jonathan Frank, MD. A 21 year old with shoulder pain: Comprehensive treatment with a Latarjet Transfer Procedure. *Rush University Medical Center, Orthopaedic Grand Rounds*. Chicago, IL, November 14<sup>th</sup>, 2012.
- **Forsythe B.** Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Rush Sports Medicine Conference*. Chicago, IL, November 12<sup>th</sup>, 2012.
- **Forsythe B.** Shoulder Injuries in Golf: A Brief Review. *Midwest Golf House*, Lemont, IL, October 27<sup>th</sup>, 2012.
- **Forsythe B**, Mjaanes J, Nho SJ, Wysocki R, Hillenmeyer H. Youth Sports Injuries: Prevention is the name of the Game. *Naperville North High School*, Naperville IL. September 26<sup>th</sup> 2012.
- **Forsythe B.** Acromioclavicular joint injuries and Clavicle Fractures. *Rush Sports Medicine Conference*. Chicago, IL, September 9<sup>th</sup>, 2012.
- **Forsythe B.** Examination of the Unstable Knee & Treatment of Patellofemoral Instability. *Accelerated Physical Therapy In-service*. Oak Park, IL, August 29<sup>th</sup>, 2012.
- **Forsythe B.** Physical Examination of the Shoulder. *Rush Sports Medicine Conference*. Chicago, IL, August 13<sup>th</sup> 2012.
- **Forsythe B.** Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Accelerated Physical Therapy*, Downer's Grove, IL. February 7<sup>th</sup>, 2012.
- **Forsythe B.** Throwing Athlete Shoulder Injuries: Prevention, Diagnosis, and Treatment. *ATI Physical Therapy*. Bolingbrook, IL. February 2<sup>nd</sup>, 2012.
- **Forsythe B.** Shoulder Instability in Throwing Athletes: Pathogenesis, Diagnosis & Treatment. *Athletico Physical Therapy*. Westchester, IL. January 8<sup>th</sup>, 2012.

- **Forsythe B.** Open Inferior Capsular Shift for Multidirectional Instability following failed arthroscopic plication. *Rush Sports Medicine Conference*. Chicago, IL. June 20, 2011.
- **Forsythe B.** Modified Tibia Tubercle Osteotomy for Patellofemoral Instability with congenital patellar and trochlear hypoplasia. *Rush Sports Medicine Conference*. Chicago, IL. June 20, 2011.
- **Forsythe B.** Surgical Management of a Multi-Ligament Knee Injury. *Rush Sports Medicine Conference*. Chicago, IL. June 13, 2011.
- **Forsythe B.** Current concepts in ACL Reconstruction: Augmentation, Single and Double-Bundle Techniques. *Athletico University Lecture Series*. Bourbonnais, IL. February 2009.
- **Forsythe B.** Fellows Case Presentation: Treatment of Olecranon Apophysitis and a Medial Epicondylar fibrous union in a collegiate pitcher. *UPMC Center for Sports Medicine. Sports Medicine Conference*. Pittsburgh, January 2008.
- Bradley, JP. **Forsythe B.** Adolescent Throwing Athletes: Injury Prevention and Treatment. *Drayer Physical Therapy Institute*. Pittsburgh, January 2008.
- **Forsythe B.** Fellows Case Presentation: Treatment of Clavicle Fractures. *UPMC Center for Sports Medicine Conference*. Pittsburgh, April 2008.
- **Forsythe B.** Fellows Case Presentation: Treatment of a Wrisberg Variant Discoid Meniscus in a 12 year old girl. *UPMC Center for Sports Medicine. Sports Medicine Conference*. Pittsburgh, September 2007.

#### ☐ National Conferences Attended

2021	ASES, Virtual Specialty Day Meeting
2020	AAOS, Virtual Meeting, Orlando, FL
2020	AANA, Virtual Meeting, Grapevine, TX
2020	AOSSM, Virtual Meeting, Seattle, WA
2020	ASES, Virtual Meeting, NYC, NY
2019	Chicago Sports Summit, Chicago, IL
2019	AOSSM, State of the Art Soccer Medicine, Miami Beach, FL
2019	AOSSM, Annual Meeting, Boston, MA
2019	AANA, Annual Meeting, Orlando, FL
2019	AAOS, Annual Meeting, Las Vegas, NV
2018	AAOS, Annual Meeting, New Orleans, LA
2018	AANA, Annual Meeting, Boston, MA
2018	AOSSM, Annual Meeting, San Diego, CA
2018	ASES, Annual Meeting, Chicago, Illinois
2017	AAOS, Annual Meeting, San Diego, CA
2017	AANA, Annual Meeting, Denver, CO
2017	AOSSM, Annual Meeting, Toronto, ON
2016	AAOS, Annual Meeting, Orlando, FL
2015	AAOS, Annual Meeting, Las Vegas, NV
2015	AANA, Annual Meeting, Los Angeles, CA
2014	AAOS, Annual Meeting, New Orleans, LA
2014	AANA, Annual Meeting, New Orleans, LA
2014	AOSSM, Annual Meeting, Hollywood, FL
2014	AAOS, Annual Meeting, Chicago, IL
2013	AAOS, Annual Meeting, San Antonio, TX
2013	AOSSM, Annual Meeting, Chicago, IL
2012	AAOS, Annual Meeting, San Francisco, CA
2011	AOSSM, Annual Meeting, San Diego, CA
2011	AAOS, Annual Meeting, San Diego, CA
2010	AAOS, Annual Meeting, New Orleans, LA
2009	AOSSM, Annual Meeting, Keystone, CO
2009	AAOS, Annual Meeting, Las Vegas, NV
2008	AOSSM, Annual Meeting, Orlando, FL
2008	Panther Global Summit, Pittsburgh, PA
2008	AAOS Annual Meeting, San Francisco, CA
2007	AOSSM Annual Meeting, Calgary, CA

**Funding History of Peer-Reviewed Grants (Federal, Professional Foundations) including type of the grant, role on the project, name of the agency, dollar amount, duration**

Received

- In vitro Analysis of Joint Contact and Kinematic Changes Associated with Clinically Relevant Lateral Meniscus Tears.  
Principal Investigator: **Forsythe B**, Martin D, Zhang X. Ref #M 2008-0060. *The Albert B. Ferguson, Jr. M.D. Orthopaedic Fund.* ed: \$5,000. (2008)
- The effect of thrombin on ACL fibroblast interactions with collagen hydrogels  
Co-Principal Investigator: **Forsythe B**. *National Institute of Arthritis and Musculoskeletal and Skin Diseases, grant number K02 AR049346-02*, National Institute of Arthritis and Musculoskeletal and Skin Diseases \$10,000 (2005)
- Are Preoperative Deltoid Muscle Activation Levels as Measured by Electromyography Predictive of Postoperative Clinical Outcomes after Reverse Total Shoulder Arthroplasty?  
Principal Investigator: **Forsythe B**. *Multipurpose Resident Grants*, Mid-America Orthopaedic Association, RTSA, \$10,000. (2016-2017)
- Wear and Corrosion in Shoulder Replacements: Device and Tissue Retrieval Analysis  
Co-Principal Investigator: **Forsythe B**. *Markus Wimmer Grant*, Rush Medical Center \$10,000, (2017-2018)

Pending or Applied for

- Effect of Mesenchymal Stem Cells in Osteoarthritis Post-Meniscectomy  
Co-Principal Investigator: **Forsythe B**, *Arthritis National Research Foundation*. \$60,000 (2018-2019)

**Funding History of Industry Support, including title of grant, role on the project [PI, Co-investigator], % effort, name of funding source, dollar amount, duration**

Current

- Biomechanical Evaluation of the Optimal Lateral Row Anchor Position in Rotator Cuff Repair,  
Principal Investigator: **Forsythe B** *Stryker Corporation* \$80,000 (2019)
- Biomechanical Performance of a Curved Suture Passer Needle Versus a Flexible Straight Needle  
Principal Investigator: **Forsythe B** *Stryker Corporation* \$10,000 (2019)

Past

- Drilling with Flexible and Straight Reamers in Anterior Cruciate Ligament Reconstruction: A Cadaveric 3-Dimensional Computed Tomography Analysis  
Principal Investigator: **Forsythe B** *Stryker Corporation* \$10,000 - \$12,000 (2016-17).
- Application of a Beta-Tricalcium Phosphate Graft to Minimize Bony Defect in Bone–Patella Tendon–Bone Anterior Cruciate Ligament Reconstruction  
Principal Investigator: **Forsythe B** *Arthrex Grant* \$500-\$1,500 (2017-2018)
- Autologous Bone Marrow Aspirate Concentrate in Patients Undergoing Anterior Cruciate Ligament Reconstruction.  
Principal Investigator: **Forsythe B** *Arthrex Inc.* \$10,000 (2016-2017)

**BIBLIOGRAPHY (numbered in reverse chronology starting with the most recent one)**

**Original full-length manuscripts (published, in press, or submitted)**

**MANUSCRIPTS IN PRINT:**

1. Puzzitiello RN, Agarwalla A, Garcia GH, Forlenza EM, Forsythe B. “All Inside Intra-epiphyseal ACL Reconstruction Using Flexible Curved Instrumentation and Intraoperative Fluoroscopy in a Skeletally Immature Patient”. *Case Reports in Orthopedics*. April 2021
2. Knapik DM, Trasolini NT, Diaz CC, Chahla J, Forsythe B. Avulsion Injuries and Ruptures of the Proximal Rectus Femoris in Skeletally Mature, High-Level Athletes: A Critical Analysis Review. Accepted at *JBJS Reviews*. April 2021.

3. Ruelos V, Puzzitiello RS, Menendez ME, Pagani NR, Moverman MA, Forsythe B, Salzler MJ. "Vancomycin Pre-soaking of ACL Tendon Grafts Is Highly Cost-Effective For Preventing Infection". *Arthroscopy*. April 2021
4. Forsythe B, Forlenza EM, Agarwalla A, Cohn MR, Lavoie-Gagne O, Lu Y, Mascarenhas R. "Corticosteroid Injections One Month Before Arthroscopic Meniscectomy Increase the Risk for Surgical Site Infection". *Arthroscopy*. March 2021
5. Forlenza EM, Burnett RA, Korrapati A, Yang J, Forsythe B, Della Valle CJ. "Preoperative Corticosteroid Injections Demonstrate a Temporal and Dose-Dependent Relationship with the Rate of Postoperative Infection Following Total Hip Arthroplasty". *Journal of Arthroplasty*. Jan 2021
6. Lu Y, Agarwalla A, Patel BH, Nolte MT, Cancienne J, Verma N, Cole BJ, **Forsythe B**. Influence of workers' compensation status on postoperative outcomes in patients following biceps tenodesis: a matched-pair cohort analysis. *J Shoulder Elbow Surg*. Dec 2020
7. Forlenza EM, **Forsythe B**. Editorial Commentary: Time to Transition to Opioid-Sparing Orthopaedic Surgery: The Writing Is on the Wall. *Arthroscopy*. Nov 2020
8. Puzzitiello RN, Nwachukwu BU, Agarwalla A, Cvetanovich GL, Chahla J, Romeo AA, Verma NN, **Forsythe B**. Patient Satisfaction After Total Shoulder Arthroplasty. *Orthopedics*. Nov 2020
9. **Forsythe B**, Lavoie-Gagne O, Patel BH, Lu Y, Ritz E, Chahla J, Okoroha KR, Allen AA, Nwachukwu BU. Efficacy of Arthroscopic Surgery in the Management of Adhesive Capsulitis: A Systematic Review and Network Meta-analysis of Randomized Controlled Trials. *Arthroscopy*. Nov 2020
10. Haunschild ED, Gilat R, Fu MC, Tauro T, Huddleston HP, Yanke AB, **Forsythe B**, Verma NN, Cole BJ. Establishing the Minimal Clinically Important Difference, Patient Acceptable Symptomatic State, and Substantial Clinical Benefit of the PROMIS Upper Extremity Questionnaire After Rotator Cuff Repair. *Am J Sports Med*. Oct. 2020
11. Manderle BJ, Gowd AK, Liu JN, Beletsky A, Nwachukwu BU, Nicholson GP, Bush-Joseph C, Romeo AA, **Forsythe B**, Cole BJ, Verma NN. Time Required to Achieve Clinically Significant Outcomes After Arthroscopic Rotator Cuff Repair. *Am J Sports Med*. Oct 2020
12. Lu Y, Forlenza E, Cohn MR, Lavoie-Gagne O, Wilbur RR, Song BM, Krych AJ, **Forsythe B**. Machine learning can reliably identify patients at risk of overnight hospital admission following anterior cruciate ligament reconstruction. *Knee Surg Sports Traumatol Arthrosc*. Oct 2020
13. Lavoie-Gange O, Lu Y, MacLean I, Forlenza E, **Forsythe B**. "Discharge Destination after Shoulder Arthroplasty: An Analysis of Discharge Outcomes, Placement Risk Factors, and Recent Trends" *Journal of the American Academy of Orthopaedic Surgeons*. Oct 2020
14. Forlenza EM, Chahla J, **Forsythe B**. Protecting Surgical Patient Safety During the COVID-19 Pandemic. *Arthrosc Sports Med Rehabil*. Sep 2020
15. Beletsky A, Naami E, Lu Y, Polce EM, Nwachukwu BU, Okoroha KR, Chahla J, Yanke AB, **Forsythe B**, Cole BJ, Verma NN. The Patient Acceptable Symptomatic State in Primary Anterior Cruciate Ligament Reconstruction: Predictors of Achievement. *Arthroscopy*. Sept. 2020
16. Polce EM, Kunze KN, Fu MC, Garrigues GE, **Forsythe B**, Nicholson GP, Cole BJ, Verma NN. "Development of Supervised Machine Learning Algorithms for Prediction of Satisfaction at Two Years Following Total Shoulder Arthroplasty". *Journal of Shoulder and Elbow Surgery*. In Press.
17. Gilat R, Wong SE, Lavoie-Gagne O, Haunschild ED, Knapik DM, Fu MC, Chahla J, **Forsythe B**, Cole BJ. Outcomes are comparable using free bone block autografts versus allografts for the management of anterior shoulder instability with glenoid bone loss: a systematic review and meta-analysis of "The Non-Latarjet". *Knee Surg Sports Traumatol Arthrosc*. Aug 2020
18. Cregar WM, Khazi Z, Lu Y, **Forsythe B**, Gerlinger TL "Lysis of Adhesion for Arthrofibrosis after Total Knee Arthroplasty is Associated with Increased Risk of Subsequent Revision Total Knee Arthroplasty" *J Arthroplasty*. July 2020
19. Cohn MR, Kunze KN, Polce EM, Nemsick M, Garrigues GE, **Forsythe B**, Nicholson GP, Cole BJ, Verma NN "Establishing Clinically Significant Outcome Thresholds for the Single Assessment Numeric Evaluation Two Years Following Total Shoulder Arthroplasty." *J Shoulder Elbow Surg*. July 2020
20. "Outcomes of The Latarjet Procedure with Minimum 5- and 10-year Follow-up: A Systematic Review" *J Shoulder Elbow Surg*. July 2020
21. Khazi ZM, Lu Y, Cregar W, Shamrock AG, Gulbrandsen TR, Mascarenhas R, **Forsythe B**. Inpatient Arthroscopic Rotator Cuff Repair Is Associated With Higher Postoperative Complications Compared With Same-Day Discharge: A Matched Cohort Analysis. *Arthroscopy*. July 2020

22. Yining L, Beletsky A, Cohn MR, Patel BH, Jourdan C, Nemsick M, Skallerud WK, Yanke AB, Verma NN, Cole B, **Forsythe B**. “Perioperative Opioid Use Predicts Postoperative Opioid Use and Inferior Outcomes After Shoulder Arthroscopy.” *Arthroscopy*. June 2020
23. Zaferiou AM, Knowlton CB, Jang S, Verma NN, **Forsythe B**, Saltzman B, Nicholson G, Romeo AA. “Patient-specific effects on scapular orientation measurements using an acromion marker cluster with multiple calibration poses”. *J Biomech*. June 2020
24. Agarwalla A, Lu Y, Chang E, Patel BH, Cancienne JM, Cole BJ, Verma N, **Forsythe B**. “Influence of mental health on postoperative outcomes in patients following biceps tenodesis” *J Shoulder Elbow Surg*. June 2020
25. Lu Y, Beletsky A, Chahla J, Patel BH, Verma NN, Cole BJ, **Forsythe B**, “How Can We Define Clinically Important Improvement in Pain Scores After Biceps Tenodesis?”. *J Shoulder Elbow Surg*. June 2020.
26. Forlenza EM, Lavoie-Gagne O, Lu Y, Cohn MR, Chang E, Yanke AB, Verma NN, Cole BJ, **Forsythe B**. “Preoperative Opioid Use Predicts Prolonged Postoperative Opioid Use and Inferior Patient Outcomes Following Anterior Cruciate Ligament Reconstruction”. *Arthroscopy*. June 2020
27. **Forsythe B**, Patel BH, Agarwalla A, Lansdown D, Kunze K, Lu Y, Puzitiello R, Verma NN, Cole BJ, LaPrade R, Inoue N, Chahla JA. “Dynamic Three-Dimensional Computed Tomography Mapping of Isometric Posterior Cruciate Ligament Attachment Sites on the Tibia and Femur: Single vs Double Bundle Analysis”. *Arthroscopy*. June 2020
28. Lu Y, Patel BH, **Forsythe B**. “Inpatient Admission following Anterior Cruciate Ligament Reconstruction is Associated with Higher Postoperative Complications” *Knee Surgery, Sports Traumatology, Arthroscopy*. June 2020
29. Beletsky A, Lu Y, Nwachukwu BU, Polce E, Maheshwer B, Chahla J, **Forsythe B**, Cole BJ, Verma NN. Preoperative psychometric properties of visual analog scale assessments for function, pain, and strength compared with legacy upper extremity outcome measures in glenohumeral osteoarthritis. *JSES Int*. June 2020
30. Beletsky A, Nwachukwu BU, Gorodischer T, Chahla J, **Forsythe B**, Cole BJ, Verma NN. Psychometric properties of visual analog scale assessments for function, pain, and strength compared with disease-specific upper extremity outcome measures in rotator cuff repair. *JSES Int*. May 2020
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#### MANUSCRIPTS SUBMITTED, IN REVIEW:

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3. **Forsythe B.** Featured in Discussion for Injury Prevention for Children. WSCR-AM 12/10/18
4. **Forsythe B.** Sports medicine orthopedic surgeon Dr. Brian Forsythe takes a look at Panthers WR Kelvin Benjamin's knee sprain. NBC5 Sports TV, Oct 17, 2017.
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